



**UniKL**

UNIVERSITI  
KUALA LUMPUR

No. Perakuan: DU01(W)



# SAILING AHEAD WITH EXCELLENCE

UNIVERSITI KUALA LUMPUR  
MALAYSIAN INSTITUTE OF MARINE ENGINEERING TECHNOLOGY

[www.unikl.edu.my](http://www.unikl.edu.my)

# Universiti Kuala Lumpur Malaysian Institute of Marine Engineering Technology

Universiti Kuala Lumpur Malaysian Institute of Marine Engineering Technology is owned by Majlis Amanah Rakyat (MARA) and now one of the renowned Government Linked Universities (GLU). Initially established as Institut Kemahiran Tinggi MARA (IKTM) since July 2001 and known as Malaysian Institute of Marine Engineering Technology (MIMET), on 20th August 2002, MIMET became an Institute of Universiti Kuala Lumpur (UniKL) and named Universiti Kuala Lumpur Malaysian Institute of Marine Engineering Technology (UniKL-MIMET). Ten (10) undergraduate programmes along with three (3) postgraduate programmes are offered, aiming to produce highly skilled also knowledgeable manpower for the marine and maritime industry. These programmes are accredited in addition, recognized by local as well as international regulatory and professional bodies such as MQA, BEM, Malaysian Marine Department, IMarEST, RINA and CILT. Strategically located campus in Lumut, Tourism and Maritime City of Perak, UniKL MIMET is committed towards providing a conducive learning environment for students, which encourages the development of technical competence, creativity, and skills. Graduates of UniKL MIMET will have the opportunity to expand their career in various fields such as Naval Architecture, Shipbuilding, Ship Repair, Marine Engineering, Maritime Management and Operation, Marine Electrical and Electronics, Fiberglass Technology, Aluminum and Steel Fabrication, Ship Maintenance and others.



96% EMPLOYABILITY RATE BY THE MINISTRY OF HIGHER EDUCATION

## PROGRAMMES OFFERED

### Doctor of Philosophy (Maritime)

JPT/BPP (N/840/8/0029) 10/27, MQA/PA13674

### Master of Engineering Technology (Maritime)

JPT/BPP (N/525/7/0022) 12/25, MQA/PA14044

### Master of Maritime Operations and Management

JPT/BPP (N/840/7/0050) 12/23, MQA/FA11410

### Bachelor of Maritime Operations (Hons)

JPT/BPP (R2/345/6/1108) 07/26, MQA/A10121

### Bachelor of Engineering Technology (Naval Architecture and Shipbuilding) with Honours

JPT/BPP (R2/525/6/0026) 09/22, MQA/FA11165

### Bachelor of Electrical and Electronics Engineering Technology (Marine) with Honours

JPT/BPP (R2/523/6/0234) 07/26, MQA/FA11164

### Bachelor of Marine Engineering Technology with Honours

JPT/BPP (R/525/6/0062) 07/26, MQA/FA4507

### Bachelor of Engineering Technology (Offshore) with Honours

JPT/BPP (N/525/6/0105) 05/26, MQA/PA11139

### Diploma of Engineering Technology in Ship Design

JPT/BPP (R/525/6/0080) 11/27, MQA/FA15133

### Diploma of Engineering Technology in Ship Construction and Maintenance

JPT/BPP (R/525/6/0081) 11/27, MQA/FA15136

### Diploma of Engineering Technology in Marine Engineering

JPT/BPP (R2/525/4/0027) 09/22, MQA/FA15134

### Diploma of Engineering Technology in Electrical and Electronics (Marine)

JPT/BPP (R2/525/4/0025) 09/22, MQA/FA15135

### Diploma in Maritime Management

JPT/BPP (N/345/4/1179) 04/28, MQA/PA14522

## ENTRY REQUIREMENTS

### Diploma of Engineering Technology in Ship Design

### Diploma of Engineering Technology Ship Construction and Maintenance

- Pass in SPM or its equivalent with at least credits (minimum Grade C and higher) in Mathematics and Natural Sciences or Technical Based Subjects; OR
- Pass in O-Level with minimum Grade C in three (3) subjects including Mathematics and Science or Technical Based Subjects; OR
- Accredited Certificate in Engineering, Engineering Technology, Technical or Malaysian Skills Certificate Level 3 with PT3; or its equivalent; OR
- Recognized related Technical/Vocational/Skills qualifications AND an adequate and relevant bridging programme; OR
- Pass Technical/Vocational/Skills qualifications recognized and approved by UniKL Senate; OR
- Pass in Sijil Vokasional Malaysia (SVM) qualification been recognized by government of Malaysia and according to approval by UniKL Senate. SVM is recognized as equivalent to 3 credits SPM for candidates who obtained;
  - Academic CGPA is equal to or greater than 2.00;
  - Vocational CGPA is equal to or greater than 2.67 and competent in all vocational modules;
  - Credit in Bahasa Melayu with SVM Code 1104;
  - Pass in Sejarah for graduate cohort 2013-2016

### Diploma of Engineering Technology in Marine Engineering

### Diploma of Engineering Technology in Electrical and Electronics (Marine)

- Pass in SPM or its equivalent with at least pass in English and credits (minimum Grade C and higher) in five (5) subjects; Bahasa Melayu, Mathematics, Science / Pure Science / Technical and two (2) other subjects; OR
- Pass in O-Level with minimum Grade C in three (3) subjects including Mathematics and Science or Technical Based Subjects.

\* Must not color blind

### Diploma in Maritime Management

- Pass in SPM or its equivalent with at least three (3) credits; OR
- Pass in O-Level or its equivalent with at least three (3) credits; OR
- Recognized related Technical and Vocational Certificate or its equivalent with one (1) year of relevant work experience or a minimum of one (1) semester of bridging programme; OR
- Pass in Sijil Kemahiran Malaysia (SKM) Level 3 and Sijil Pelajaran Malaysia (SPM) with at least one (1) credit; OR
- Pass in Sijil Vokasional Malaysia (SKM) (MQF Level 3) qualification been recognized by Jabatan Pembangunan Kemahiran (JPK), government of Malaysia and according to approval by UniKL Senate; OR
- Pass in Sijil Vokasional Malaysia (SVM) qualification recognized by government of Malaysia and according to approval by UniKL Senate. SVM is recognized as equivalent to 3 credits SPM for candidates who obtained;
  - Academic CGPA is equal to or greater than 2.00;
  - Vocational CGPA is equal to or greater than 2.67 and competent in all vocational modules;
  - Credit in Bahasa Melayu with SVM Code 1104;
  - Pass in Sejarah for graduate cohort 2013-2016

### Bachelor of Maritime Operations (Hons)

- Pass in STPM with at least Grade C (GP 2.0) in any TWO subjects\* AND a pass in Mathematics and English at SPM level\*, OR
  - Pass in STAM with at least Grade Jayyid\* AND a pass in Mathematics and English at SPM level\*, OR
  - Matriculation or Foundation with at least CGPA of 2.00; OR
  - A Diploma (Level 4, MQF) with at least CGPA of 2.00; OR
  - An Advanced Diploma (Level 5, MQF) with at least CGPA of 2.00; OR
- \*Can be waived should any other higher qualifications contain Mathematics and English subjects with an equivalent/higher achievement.
- Pass in Diploma Kemahiran Malaysia (DKM)/ Diploma Lanjutan Kemahiran Malaysia (DLKM)/ Diploma Vokasional Malaysia (DVM) with a minimum CGPA of 2.50 and the programme must get Full Accreditation (FA) by MQA or others Accreditation bodies recognized by government of Malaysia and according to approval by UniKL Senate; OR
  - Pass the DKM/DLKM/DVM with a minimum CGPA of 2.00 AND have at least two (2) years of work experience in the related field. The programme must get Full Accreditation (FA) by MQA or others Accreditation bodies that had been recognized by government of Malaysia and according to approval by UniKL Senate.

### Bachelor of Engineering Technology Programs

- Pass in STPM/Matriculation/Foundation or its equivalent, with minimum CGPA 2.00 and at least Grade C in Mathematics and one relevant Science subject; OR
- Pass in International Baccalaureate (IB) with at least 24 points; OR
- Pass in A-Level with minimum Grade D in Mathematics one (1) relevant Science subject; OR
- Pass in Sijil Tinggi Agama Malaysia (STAM) with minimum grade of Jayyid and pass SPM or its equivalent with minimum Grade C in Mathematics and one relevant Physical Science subjects (i.e; Physic, Chemistry & etc); OR
- Recognized Diploma in Engineering/Engineering Technology or its equivalent with CGPA 2.00; OR
- Recognized related Technical/Vocational/Skills Diploma with CGPA 2.00; OR
- Pass Diploma Kemahiran Malaysia (DKM)/ Diploma Lanjutan Kemahiran Malaysia (DLKM)/ Diploma Vokasional Malaysia (DVM) with a minimum CGPA of 2.50 and the programme must get Full Accreditation (FA) by MQA or others Accreditation bodies that had been recognized by government of Malaysia and according to approval by UniKL Senate; OR
- Pass the DKM/DLKM/DVM with a minimum CGPA of 2.00 AND have at least two (2) years of work experience in the related field. The programme must get Full Accreditation (FA) by MQA or others Accreditation bodies that had been recognized by government of Malaysia and according to approval by UniKL Senate.

# Doctor of Philosophy (Maritime)

JPT/BPP(N/840/8/0029) 10/27, MQA/PA13674

## SEMESTER 1

- Research Method
- Innovation Technology and Entrepreneurship

## SEMESTER 2

- Proposal Defence

## SEMESTER 3

- Thesis

## SEMESTER 4

- Thesis

## SEMESTER 5

- Thesis
- Data Collection
- Notice of Submission Form

## SEMESTER 6

- VIVA-VOCE

# Master of Engineering Technology (Maritime)

JPT/BPP (N/525/7/0022) 12/25, MQA/PA14044

## SEMESTER 1

- Research Method
- Innovation Technology and Entrepreneurship

## SEMESTER 2

- Preparation
- Proposal Defence

## SEMESTER 3

- Thesis
- Data Collection and Data Analysis
- Submit Notice of Submission Form

## SEMESTER 4

- VIVA-VOCE

# Master of Maritime Operations and Management

JPT/BPP (N/840/7/0050) 12/23, MQA/FA11410

## SEMESTER 1

- Research Method
- Marine and Coastal Environment
- Maritime Economics
- Marine Technology
- International Business
- Maritime Law

## SEMESTER 2

- Innovation Technology and Entrepreneurship
- Elective 1
- Master Project 1

## SEMESTER 3

- Master Project 2
- Elective 2
- Seminar on Contemporary Issues in Maritime Operations
- Ship Operations, Broking and Chartering

## ELECTIVE

- Maritime Logistics
- Marine Insurance and Risk Management
- E-Commerce and Information Technology
- Ship Design Technology
- Maritime Engineering Project Management

# Bachelor of Maritime Operations (Hons)

JPT/BPP (R2/345/6/1108) 07/26, MQA/A10121

## SEMESTER 1

- Professional English 1
- Fundamental English
- Tamadun Islam & Tamadun Asia (TITAS)
- Pengajian Malaysia 3\*
- Technopreneurship
- Business Mathematics 1
- \*Pengajian Malaysia 3: For International Student

## SEMESTER 2

- Hubungan Etnik
- Bahasa Melayu Komunikasi 2\*\*
- Mandarin 1
- Arabic Language 1
- Fundamental of Maritime Operations
- Occupational Safety and Health
- Principles of Economics
- Seamanship and Chartwork
- Ship Technology
- Oceanography
- \*\*Bahasa Melayu Komunikasi 2: For International Student

## SEMESTER 3

- Maritime Transport Operations
- Mandarin 2
- Arabic Language 2
- Management Accounting and Finance
- Business Mathematics 2
- E-Commerce and Information Systems
- Business Management
- Innovation Management
- Integrated Transport System

## SEMESTER 4

- Isu-isu Kontemporari Muslim di Malaysia
- Culture and Lifestyle in Malaysia\*\*\*
- Professional English 2
- Maritime and Admiralty Laws
- Shipyard Management and Project Planning
- Quality Management
- Applied Statistics
- Marketing
- \*\*\*Culture and Lifestyle in Malaysia: For International and Local Non-Muslim Student

## SEMESTER 5

- Final Year Project 1
- Law of The Sea and Ship Operation
- Exporting and Importing
- Marine Insurance
- Academic Writing
- Cargo Handling System
- Elective 1

## SEMESTER 6

- Final Year Project 2
- International Logistics
- Seaport and Terminal Operations
- Business Law
- Co-Curriculum 2
- Elective 2

## SEMESTER 7

- Industrial training

## ELECTIVE SUBJECTS

- Collision Regulation
- Maritime Meteorology
- Integrated Marine Pollution Control
- Programming for Project Management
- Maritime and Offshore Safety Analysis
- Introduction to Marine Machineries
- Business Computer Aided Design (CAD)

## CAREER PATHS

- Shipping Industries
- Exchanges / Brokerage
- Seaport Operations
- Shipbuilding and Ship Repair

- Government Maritime Agencies
- Ship Agents
- Custom and Forwarding Agents
- Marine Insurance
- Maritime Defence Industry

- Naval Architecture and Marine Engineering Firm
- Ship Surveyor
- Cargo Handling
- Freight Logistics
- Academic and Research Institutes

# Bachelor of Engineering Technology (Naval Architecture and Shipbuilding) with Honours

JPT/BPP(R2/525/6/0026) 09/22 MQA/FA11165

## SEMESTER 1

- Engineering Mathematics 1
- Fundamental English
- Technopreneurship
- Tamadun Islam & Tamadun Asia (TITAS)
- Pengajian Malaysia 3\*
- Professional English 1
- \*Pengajian Malaysia 3: For International Student

## SEMESTER 2

- Mandarin 1
- Arabic Language 1
- Occupational Safety and Health
- Ship and Engineering Drawings
- Naval Architecture 1
- Bahasa Melayu Komunikasi 2\*\*
- Hubungan Etnik
- Engineering Science
- Marine Electronics
- Engineering Mathematics 2
- \*\*Bahasa Melayu Komunikasi 2: For International Student

## SEMESTER 3

- Innovation Management
- Mandarin 2
- Arabic Language 2
- Ship Materials
- Fluid Mechanics
- Naval Architecture 2
- Applied Mechanics
- Welding Technology
- Computer Aided Ship Design 1

## SEMESTER 4

- Shipbuilding Technology
- Thermodynamics
- Strength of Materials
- Ship Production Technology
- Maritime Law
- Ship Structure
- Marine Electro-Technology
- Professional English 2

## SEMESTER 5

- Ship Resistance and Propulsion
- Marine Power Plant and Auxiliary Support System
- Applied Dynamics
- Computer Aided Ship Design 2
- Numerical Methods
- Offshore and Subsea Structures
- Isu-isu Kontemporari Muslim di Malaysia
- Culture and Lifestyle in Malaysia\*\*\*
- \*\*\*Culture and Lifestyle in Malaysia: For International and Local Non-Muslim Student

## SEMESTER 6

- Final Year Project 1
- CAM Technology
- Ship Design
- Seakeeping and Manoeuvring
- Co-Curriculum 2
- Quality Management
- Elective 1

## SEMESTER 7

- Final Year Project 2
- Shipyard and Engineering Project Management
- Marine System Design
- Elective 2
- Elective 3

## ELECTIVE SUBJECTS 1

- Introduction to Technical Computing
- Introduction to Programming
- Cargo Handling System
- Maritime Economic and Transportations

## ELECTIVE SUBJECTS 2 & 3

- Marine Electrical Code of Practices
- Navigation Equipment and System
- Maritime and Offshore Safety Analysis
- Oceanography
- Integrated Marine Pollution Control

## CAREER PATHS

- Naval Architect
- Technology Management Engineer
- Modelling and Simulation Software Developer

- Marine Design Engineer
- Project Manager
- Government Agencies
- Ship Powering and Propulsion Engineer
- Marine Surveyor

- Painting and Coating Specialist
- Marine Consultant
- Shipbuilding & Repairing Engineer
- Offshore Engineer (Structure)
- Academician

# Bachelor of Electrical and Electronics Engineering Technology (Marine) with Honours

JPT/BPP (R2/523/6/0234) 07/26 MQA/FA11164

## SEMESTER 1

- Tamadun Islam & Tamadun Asia (TITAS)
- Pengajian Malaysia 3\*
- Fundamental English
- Professional English 1
- Mathematics 1
- Technopreneurship

\*Pengajian Malaysia 3:  
For International Student

## SEMESTER 2

- Mathematics 2
- Mandarin 1
- Arabic Language 1
- Hubungan Etnik
- Bahasa Melayu Komunikasi 2\*\*
- Engineering Science
- Occupational Safety and Health
- Digital Electronics System
- Introduction to Programming
- Principles of Electrical and Electronics

\*\*Bahasa Melayu Komunikasi 2:  
For International Student

## SEMESTER 3

- Innovation Management
- Computer Aided Design (CAD) 2D
- Study and Implementation of Project
- Control Systems
- Mathematics 3
- Ship Technology
- Analogue Electronics
- Electric Circuits

## SEMESTER 4

- Network Analysis
- Microprocessor
- Introduction to Technical Computing
- Industrial Automation
- Electro-Technique 1
- Mandarin 2
- Arabic Language 2
- Isu-isu Kontemporari Muslim di Malaysia Culture and Lifestyle in Malaysia\*\*\*
- Marine Electrical Code of Practices

\*\*\*Culture and Lifestyle in Malaysia:  
For International and Local Non-Muslim Student

## SEMESTER 5

- Professional English 2
- Project Planning and Management
- Signals and Systems
- Electronics Communication 1
- Power Electronics
- Ship Controlling and Monitoring (SCAM) System
- Co-Curriculum 2
- Electro-Technique 2

## SEMESTER 6

- Final Year Project 1
- Digital Signal Processing
- Electronics Communication 2
- Business Management
- Navigation Equipment and System
- Elective 1

## SEMESTER 7

- Final Year Project 2
- Quality Management
- Underwater Acoustics Systems
- Marine Electrical and Industrial Workshop Practice
- Elective 2
- Elective 3

## SEMESTER 8

- Industrial Training

## ELECTIVE SUBJECTS 1

- Wireless Communications
- Ship Electrical Installation
- Radio Detection and Ranging (RADAR) System
- Shipyard and Engineering Project Management
- Maritime and Offshore Safety Analysis

## CAREER PATHS

- Maritime Electrical Engineer
- Electronic Engineer
- Electrical Engineer
- Electrical System Engineer
- Electrical / Automation Engineer
- System Project Manager
- Government Agencies
- Marine Surveyor
- Power Plant Engineer (Electrical / Electronics)
- Offshore Engineer (Electrical / Electronics)
- Academician

# Bachelor of Marine Engineering Technology with Honours

JPT/BPP (R/525/6/0062) 07/26 MQA/FA4507

## SEMESTER 1

- Fundamental English
- Tamadun Islam & Tamadun Asia (TITAS)
- Pengajian Malaysia 3\*
- Professional English 1
- Technopreneurship
- Engineering Mathematics 1

\*Pengajian Malaysia 3:  
For International Student

## SEMESTER 2

- Marine Engineering Drawings
- Mandarin 1
- Arabic Language 1
- Hubungan Etnik
- Bahasa Melayu Komunikasi 2\*\*
- Engineering Science
- Engineering Mathematics 2
- Introduction to Marine Engineering System
- Ship Materials

\*\*Bahasa Melayu Komunikasi 2:  
For International Student

## SEMESTER 3

- Mandarin 2
- Arabic Language 2
- Thermodynamics
- Statics
- Naval Architecture for Marine Engineering System
- Workshop Technology 1
- Innovation Management
- Fluid Mechanics
- Marine Electrical and Electronics

## SEMESTER 4

- Marine Boilers
- Marine Electrotechnology and Maintenance
- Maritime Professional English
- Ship Construction
- Strength of Materials
- Marine Diesel Engine 1
- Marine Auxiliaries 1

## SEMESTER 5

- Marine Steam and Gas Turbine
- Elective 1
- Dynamics
- Marine Diesel Engine 2
- Marine Auxiliaries 2
- Isu-isu Kontemporari Muslim di Malaysia Culture & Lifestyle in Malaysia\*\*\*
- Workshop Technology 2

\*\*\*Culture and Lifestyle in Malaysia:  
For International and Local Non-Muslim Student

## SEMESTER 6

- Marine Engineering Practice
- Final Year Project 1
- Elective 2
- Resistance and Propulsion
- International Maritime Law 1
- Marine Automation and Control

## SEMESTER 7

- Marine Electrical Equipment Control System
- International Maritime Law 2
- Final Year Project 2
- Elective 3
- Co-Curriculum 2
- Marine Control System

## ELECTIVE SUBJECTS

- Fundamental of Maritime Operations
- Maritime and Offshore Safety Analysis
- Navigation Equipment and System
- Seamanship and Chart Work
- Integrated Marine Pollution Control

## CAREER PATHS

- Marine Engineer (e.g. Chief Engineer, 2nd, 3rd and 4th Class Engineer)
- Marine Surveyor
- Marine Superintendent
- Shipyard Personnel
- Maintenance and Operation Engineer
- Marine Specialist
- Project Manager
- Academician
- Marine Consultant
- Government Agencies

# Bachelor of Engineering Technology (Offshore) with Honours

JPT/BPP (N/525/6/0105) 05/26, MQA/PA11139

## SEMESTER 1

- Tamadun Islam & Tamadun Asia (TITAS)
- Pengajian Malaysia 3\*
- Fundamental English
- Technopreneurship
- Engineering Mathematics 1
- Professional English 1
- Engineering Science
- Computer Aided Design (CAD) 2D

\*Pengajian Malaysia 3:  
For International Student

## SEMESTER 2

- Arabic 1 / Mandarin 1
- Hubungan Etnik / Bahasa Melayu Komunikasi 2\*\*
- Professional English 2
- Maritime Law
- Engineering Mathematics 2
- Fluid Mechanics 1
- Occupational Safety and Health
- Applied Mechanics

\*\*Bahasa Melayu Komunikasi 2:  
For International Student

## SEMESTER 3

- Arabic 2 / Mandarin 2
- Statistics
- Fluid Mechanics 2
- Offshore Logistics
- Dynamics
- Innovation Management
- Marine Electronics
- Computer Aided Offshore Design 1

## SEMESTER 4

- Thermodynamics
- Strength of Materials
- Dynamic of Offshore Platform
- Engineering Materials
- Offshore Production Technology
- Offshore System Design 1

## SEMESTER 5

- Isu-isu Kontemporari Muslim di Malaysia / Culture and Lifestyle in Malaysia\*\*\*
- Computational Analysis for Offshore Engineering
- Offshore Hydrodynamics
- Workshop Technology
- Offshore Structure
- Offshore System Design 2
- Marine Electro-Technology
- Computer Aided Offshore Design 2

\*\*\*Culture and Lifestyle in Malaysia:  
For International and Local Non-Muslim Student

## SEMESTER 6

- Co-Curriculum 2
- Fundamental Instrumentation and Control System
- Offshore Machineries
- Offshore Pipeline Engineering
- Offshore Laboratory
- Final Year Project 1
- Ethics for Technologist

## SEMESTER 7

- Fatigue and Fracture Mechanics of Offshore Structure
- Industrial Automation
- Final Year Project 2
- Offshore Project Management
- Elective 1
- Elective 2

## ELECTIVE SUBJECTS

- Offshore Structural Integrity
- Offshore Gas Technology
- Integrated Marine Pollution Control
- Maritime and Offshore Safety Analysis
- Element of Reservoir Technology
- Engineering Economics
- Oceanography

## SEMESTER 8

- Industrial Training

## CAREER PATHS

- Oil and Gas Industry
- Offshore Fabrication Yard
- Offshore Design House
- Classification Societies
- Offshore Machinery Installation and Repair
- Professional Bodies
- Government Agencies
- Academician
- Offshore Consultant
- Offshore Engineer (Structure)
- Project Manager

# Diploma of Engineering Technology in Ship Design

JPT/BPP (R/525/6/0080) 11/27, MQA/FA15133

## SEMESTER 1

- Technical Mathematics 1
- Occupational Safety and Health in Industries and Shipyard Operations
- Introduction to Ship Technology
- Introduction to Welding and Thermal Cutting
- Engineering Drawing
- Introduction to Hand and Power Tools
- Pengajian Malaysia 2
- Bahasa Melayu Komunikasi 1\*
- Mandarin 1
- Arabic Language 1
- Competency English
- \*Bahasa Melayu Komunikasi 1\*: For International Student

## SEMESTER 2

- Engineering Science
- Technical Mathematics 2
- CAD 2D
- Interpersonal Skills
- Communication English 1
- Mandarin 2
- Arabic Language 2
- Introduction to Entrepreneurship
- Elective 1

## SEMESTER 3

- Ship Materials
  - Fluid Mechanics
  - Naval Architecture 1
  - CAD Modelling Concepts
  - Hydraulic and Pneumatic Systems
  - Static and Dynamics
  - Amalan Islam di Malaysia
  - Religious Practices in Malaysia\*\*
  - Elective 2
- \*\*Religious Practice in Malaysia: For International and Local Non-Muslim Student

## SEMESTER 4

- Shipbuilding Economic
- Strength of Materials
- Marine Engineering System
- Fundamental Thermodynamics
- Naval Architecture 2
- Co-Curriculum 1
- Communication English 2

## SEMESTER 5

- Marine Structure Design
- Computer Aided Ship Design (CAD-Lines Plan)
- Naval Architecture 3
- Ship Resistance and Propulsion
- Shipboard Electro-Technology
- Final Year Project

## SEMESTER 6

- Industrial training

## ELECTIVE SUBJECTS

- Wood Technology and Processes
- Manual Metal Arc Welding (Steel)
- Gas Metal Arc Welding (Steel)
- Composite Fibres
- Welding (Steel)
- Welding (Non-Ferrous)

## CAREER PATHS

- Engineering Technician
- Designer / Drafter
- Draughtsman
- Project Coordinator
- Enforcement Officer
- Estimator
- Project Supervisor
- Project Planner
- Government Agencies

# Diploma of Engineering Technology in Ship Construction and Maintenance

JPT/BPP (R/525/6/0081) 11/27, MQA/FA15136

## SEMESTER 1

- Introduction to Hand and Power Tools
- Technical Mathematics 1
- Occupational Safety and Health in Industries and Shipyard Operations
- Introduction to Ship Technology
- Introduction to Welding and Thermal Cutting
- Engineering Drawing
- Mandarin 1
- Arabic Language 1
- Pengajian Malaysia 2
- Bahasa Melayu Komunikasi 1\*
- Competency English
- \*Bahasa Melayu Komunikasi 1\*: For International Student

## SEMESTER 2

- CAD 2D
- Engineering Science
- Fitting Techniques and Machining
- Technical Mathematics 2
- Mandarin 2
- Arabic Language 2
- Ship Technology
- Introduction to Entrepreneurship
- Interpersonal Skills
- Elective 1

## SEMESTER 3

- Fluid Mechanics
  - Ship Materials
  - Communication English 1
  - Naval Architecture 1
  - Elective 2
  - Amalan Islam di Malaysia
  - Religious Practices in Malaysia\*\*
  - CAM 2D and 3D
- \*\*Religious Practice in Malaysia: For International and Local Non-Muslim Student

## SEMESTER 4

- Shipyard Operation
- Fundamental Thermodynamics
- Naval Architecture 2
- Hydraulic and Pneumatic Systems
- Project Planning Application
- Elective 3
- Communication English 2

## SEMESTER 5

- Principles of Management
- Quality Control Systems
- Marine Engineering System
- Final Year Project
- Co-Curriculum 1

## SEMESTER 6

- Industrial training

## ELECTIVE SUBJECTS

- Wood Technology and Processes
- Manual Metal Arc Welding (Steel)
- Gas Metal Arc Welding (Steel)
- Composite Fibres
- Welding (Steel)

- Welding (Non-Ferrous)
- Wooden Boat Construction
- Piping and Heavy Fabrication
- Light Fabrication

## CAREER PATHS

- Maintenance Supervisor
- Maintenance Superintendent
- Structural Welder and Ship Fitter
- Field Service Technician
- Welding Inspector
- Project Planner
- Project Supervisor
- Project Coordinator
- Government Agencies

# Diploma of Engineering Technology in Marine Engineering

JPT/BPP (R2/525/4/0027) 09/22, MQA/FA15134

## SEMESTER 1

- Engineering Science
- Technical Mathematics 1
- Marine Engineering Drawing
- Mandarin 1
- Arabic Language 1
- Competency English
- Pengajian Malaysia 2
- Bahasa Melayu Komunikasi 1\*
- Introduction to Marine Engineering
- \*Bahasa Melayu Komunikasi 1\*: For International Student

## SEMESTER 2

- Technical Mathematics 2
- Fluid Mechanics
- Marine Electro-Technique 1
- Fundamental Thermodynamics
- Introduction to Entrepreneurship
- Communication English 1
- Workshop Technology 1
- Mandarin 2
- Arabic Language 2

## SEMESTER 3

- Naval Architecture
- Applied Thermodynamics
- Marine Electro-Technique 2
- Maritime Communication English
- Workshop Technology 2
- Interpersonal Skills
- Static and Dynamics

## SEMESTER 4

- Marine Auxiliaries
  - Marine Propulsion Steam Turbine
  - Marine Propulsion Diesel Engine
  - Amalan Islam di Malaysia
  - Religious Practices in Malaysia\*\*
  - Ship Materials
  - International Maritime Law
- \*\*Religious Practice in Malaysia: For International and Local Non Muslim Student

## SEMESTER 5

- Marine Automation and Control
- Marine Engineering Practice
- Co-Curriculum 1
- Final Year Project

## SEMESTER 6

- Industrial training

## CAREER PATHS

- Marine Engineer (e.g. Chief Engineer, 2nd, 3rd and 4th Class Engineer)
- Marine Supervisor
- Marine Outside Machinist
- Dockyard Technician
- Engineering Technician – Controls
- Seismic Navigator
- Offshore Supervisor
- Project Supervisor
- Project Planner
- Project Coordinator
- Government Agencies

# Diploma of Engineering Technology in Electrical and Electronics (Marine)

JPT/BPP (R2/525/4/0025) 09/22, MQA/FA15135

## SEMESTER 1

- Fundamentals of Electrical and Electronics Laboratory
- Introduction to Electrical and Electronics
- Introduction to Ship Technology
- Occupational Safety and Health in Industries and Shipyard Operations
- Engineering Science
- Competency English
- Technical Mathematics 1
- Pengajian Malaysia 2
- Bahasa Melayu Komunikasi 1\*  
\*Bahasa Melayu Komunikasi 1\*: For International Student

## SEMESTER 2

- Electric Circuits
- Analogue Electronics
- Electrical Workshop Practice
- Mandarin 1
- Arabic Language 1
- Technical Mathematics 2
- Introduction to Entrepreneurship
- Interpersonal Skills

## SEMESTER 3

- Instrumentation
- Electrical Power and Distribution
- Electronic Workshop Practice
- Introduction to Programming
- Automation System
- Digital Electronics
- Amalan Islam di Malaysia
- Religious Practices Malaysia\*\*
- Communication English 1
- \*\*Religious Practice in Malaysia : For International and Local Non Muslim Student

## SEMESTER 4

- Electrical CAD
- Shipboard Electrical Installation and Auxiliary Equipment
- Programmable Logic Controller
- Electronic Communication System
- Principles of Management
- Co-Curriculum 1
- Maritime Communication English
- Mandarin 2
- Arabic Language 2

## SEMESTER 5

- Navigation Equipment and System
- Microprocessor Based System
- Power Electronics and Devices
- Final Year Project

## SEMESTER 6

- Industrial training

## CAREER PATHS

- Electro Technical Officer (ETO)
- Marine Electronics Technician
- Maintenance Electrician
- Deck Electrician (Marine)
- Oceanographic Electronics Technician
- Power Plant Operator
- Technician
- Project Supervisor
- Project Planner
- Project Coordinator
- Government Agencies

# Diploma in Maritime Management

JPT/BPP (N/345/4/1179) 04/28, MQA/PA14522

## SEMESTER 1

- Competency English
- Occupational Safety and Health in Industries and Shipyard Operations
- Pengajian Malaysia
- Bahasa Melayu Komunikasi 1
- Introduction to Maritime Operations
- Principles of Management
- Introduction to Ship Technology
- Interpersonal Skills
- Basic Oceanography

## SEMESTER 2

- Amalan Islam Di Malaysia
- Religious Practices in Malaysia
- Foreign Language 1
- Communication English 1
- Co-curriculum 1
- Business Mathematics
- Transport Economics
- Coastal Navigation and Chart work
- Principles of Shipping

## SEMESTER 3

- Foreign Language 2
- Communication English 2
- IoT Data Analytics
- Fundamental Logistics
- Maritime Regulations
- Principles of Marketing
- Religious Practices in Malaysia\*
- Fundamental of Seaport Management
- Cargo Handling

## SEMESTER 4

- Final Year Project
- Introduction to Entrepreneurship
- Warehouse Management
- Shipyard and Project Planning
- Collision Regulations
- Freight Forwarding

## SEMESTER 5

- Industrial training

## CAREER PATHS

- Port Officer
- Ship Agent
- Warehousing Supervisor
- Marine Officer
- Ship Crew Officer
- Procurement Officer
- Logistics Coordinator Officer
- Freight Forwarding Officer
- Government Enforcement Officer





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